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System and method for authenticating objects

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authentication &lt;and&gt; invisible &lt;and&gt; comparing

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Multimedia, IEEE Transactions on, Volume: 6, Issue: 1, Feb. 2004

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[\[Abstract\]](#) [\[PDF Full-Text \(800 KB\)\]](#) **IEEE JNL****2 Fragile watermark based on the Gaussian mixture model in the wavelet domain for image authentication***Yuan, H.; Zhang, X.-P.;*

Image Processing, 2003. Proceedings. 2003 International Conference on, Volume: 1, 14-17 Sept. 2003

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Secure Images and Image Authentication (Ref. No. 2000/039), IEE Seminar on, 10 April 2000

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*Holliman, M.; Memon, N.;*

Image Processing, IEEE Transactions on , Volume: 9 , Issue: 3 , March 2000  
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*Te-Shen Liang; Rodriguez, J.J.;*

Image Processing, 2000. Proceedings. 2000 International Conference on , Volume: 1 , 10-13 Sept. 2000  
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### 3 Transparent robust authentication and distortion measurement technique for images

*Zhu, B.; Swanson, M.D.; Tewfik, A.H.;*

Digital Signal Processing Workshop Proceedings, 1996., IEEE , 1-4

Sept. 1996  
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[\[Abstract\]](#) [\[PDF Full-Text \(604 KB\)\]](#) **IEEE CNF**

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**4 A robust public watermark for halftone images**

*Ming Sun Fu; Au, O.C.;*  
Circuits and Systems, 2002. ISCAS 2002. IEEE International  
Symposium on , Volume: 3 , 26-29 May 2002  
Pages:639 - 642

[\[Abstract\]](#) [\[PDF Full-Text \(744 KB\)\]](#) **IEEE CNF**

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**5 Watermarks embedded in the permuted image**

*Jui-Cheng Yen;*  
Circuits and Systems, 2001. ISCAS 2001. The 2001 IEEE  
International Symposium on , Volume: 2 , 6-9 May 2001  
Pages:53 - 56 vol. 2

[\[Abstract\]](#) [\[PDF Full-Text \(460 KB\)\]](#) **IEEE CNF**

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**6 A methodology for data hiding using images**

*Marvel, L.M.; Retter, C.T.; Boncelet, C.G., Jr.;*  
Military Communications Conference, 1998. MILCOM 98.  
Proceedings., IEEE , Volume: 3 , 18-21 Oct. 1998  
Pages:1044 - 1047 vol.3

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**7 Hiding information in images**

*Marvel, L.M.; Retter, C.T.; Boncelet, C.G., Jr.;*  
Image Processing, 1998. ICIP 98. Proceedings. 1998 International  
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*Huggett, A.; Stubbings, C.;*  
Secure Images and Image Authentication (Ref. No. 2000/039), IEE  
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**9 Next generation technologies to combat counterfeiting of electronic components***Bastia, S.;*

Components and Packaging Technologies, IEEE Transactions on [see also Components, Packaging and Manufacturing Technology, Part A: Packaging Technologies, IEEE Transactions on] , Volume: 25 , Issue: 1 , March 2002

Pages:175 - 176

[\[Abstract\]](#) [\[PDF Full-Text \(155 KB\)\]](#) [IEEE JNL](#)**10 Spatial domain digital watermarking of multimedia objects for buyer authentication***Mukherjee, D.P.; Maitra, S.; Acton, S.T.;*

Multimedia, IEEE Transactions on , Volume: 6 , Issue: 1 , Feb. 2004

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Image Processing, IEEE Transactions on , Volume: 10 , Issue:

10 , Oct. 2001

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Image Processing, IEEE Transactions on , Volume: 10 , Issue:

5 , May 2001

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Image Processing, IEEE Transactions on , Volume: 10 , Issue:

11 , Nov. 2001

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**14 A multi-bit robust watermark for halftone images***Ming Sun Fu; Au, O.C.;*

Multimedia and Expo, 2003. ICME '03. Proceedings. 2003

International Conference on , Volume: 1 , 6-9 July 2003

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[Abstract] [PDF Full-Text (401 KB)] **IEEE CNF**

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**15 Fragile watermark based on the Gaussian mixture model in the wavelet domain for image authentication***Yuan, H.; Zhang, X.-P.;*

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*Gonzalez-Serrano, F.J.; Molina-Bulla, H.Y.; Murillo-Fuentes, J.J.; Acoustics, Speech, and Signal Processing, 2001. Proceedings. (ICASSP '01). 2001 IEEE International Conference on*, Volume: 3, 7-11 May 2001  
Pages:1997 - 2000 vol.3

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**17 Applications of data hiding in digital images**

*Fridrich, J.;*  
Signal Processing and Its Applications, 1999. ISSPA '99. Proceedings of the Fifth International Symposium on, Volume: 1, 22-25 Aug. 1999  
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*Johnson, A.; Biggar, M.;*  
Global Telecommunications Conference, 1998. GLOBECOM 98. The

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*Min Wu; Bede Liu;*

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23	161	beck.in. and GB	EPO; JPO	2004/09/17 21:48
24	0	(beck.in. and GB) and "1975"	EPO; JPO	2004/09/17 21:48
25	3	(beck.in. and GB) and "75"	EPO; JPO	2004/09/17 21:49
26	0	w092/04692	EPO; JPO	2004/09/17 21:49
27	0	w092/04692.pn.	EPO; JPO	2004/09/17 21:49
28	0	92/04692.pn.	EPO; JPO	2004/09/17 21:49
29	1	9204692.pn.	EPO; JPO	2004/09/17 21:50
30	1	9315491.pn.	EPO; JPO	2004/09/17 21:50
31	0	9407326.pn.	EPO; JPO	2004/09/17 21:51
32	0	94/07326.pn.	EPO; JPO	2004/09/17 21:51
33	0	9407326.pn.	EPO; JPO	2004/09/17 21:51
34	1	9815418.pn.	EPO; JPO	2004/09/17 21:52
35	0	0187632.pn.	EPO; JPO	2004/09/17 21:52
36	1	187632.pn.	EPO; JPO	2004/09/17 21:52
37	0	200187632.pn.	EPO; JPO	2004/09/17 21:54
38	0	(("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn. ) and (invisible adj indicia)	USPAT; DERWENT	2004/09/17 21:54
39	0	(("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn. ) and (invisible near indicia)	USPAT; DERWENT	2004/09/17 21:54
40	2	((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn. ) and (invisible with indicia)	USPAT; DERWENT	2004/09/17 21:54
41	0	((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn. ) and (invisible with indicia)) and authentication	USPAT; DERWENT	2004/09/17 21:55

42	0	((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn. ) and (invisible with indicia)) and authenticating	USPAT; DERWENT	2004/09/17 21:55
43	0	((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn. ) and (invisible with indicia)) and authenticating\$4	USPAT; DERWENT	2004/09/17 21:55
44	0	(invisible adj indicia) and authenticat\$4	USPAT; DERWENT	2004/09/17 21:55
45	10	(invisible adj indicia) and authenticat\$4	USPAT; DERWENT	2004/09/17 21:55
46	7	( (invisible adj indicia) and authenticat\$4) and wavelength	USPAT; DERWENT	2004/09/17 21:55
47	6	(( (invisible adj indicia) and authenticat\$4) and wavelength) and image	USPAT; DERWENT	2004/09/17 21:56
48	6	(( (invisible adj indicia) and authenticat\$4) and wavelength) and image) and identification	USPAT; DERWENT	2004/09/17 21:56
49	5	(((( (invisible adj indicia) and authenticat\$4) and wavelength) and image) and identification) and compar\$4	USPAT; DERWENT	2004/09/17 21:56
50	2	((((( (invisible adj indicia) and authenticat\$4) and wavelength) and image) and identification) and compar\$4) and encod\$4	USPAT; DERWENT	2004/09/17 21:56

L Number	Hits	Search Text	DB	Time stamp
1	6	("5708717" or "4914700" or "4198147").pn.	USPAT; DERWENT	2004/09/17 20:01
2	4	((("5708717" or "4914700" or "4198147").pn.) and print\$4	USPAT; DERWENT	2004/09/17 20:01
3	1	((("5708717" or "4914700" or "4198147").pn.) and print\$4) and wavelength	USPAT; DERWENT	2004/09/17 20:02
4	1	((("5708717" or "4914700" or "4198147").pn.) and print\$4) and wavelength) and indicia	USPAT; DERWENT	2004/09/17 20:02
5	1	((("5708717" or "4914700" or "4198147").pn.) and print\$4) and wavelength) and indicia) and invisible	USPAT; DERWENT	2004/09/17 20:03
6	32311	authenticat\$4	USPAT; DERWENT	2004/09/17 20:04
7	1	authenticat\$4 and (object with (print\$4 adj region))	USPAT; DERWENT	2004/09/17 20:06
8	1	(authenticat\$4 and (object with (print\$4 adj region))) and invisible	USPAT; DERWENT	2004/09/17 20:06
9	0	((authenticat\$4 and (object with (print\$4 adj region))) and invisible) and wavelength	USPAT; DERWENT	2004/09/17 20:06
10	1	((authenticat\$4 and (object with (print\$4 adj region))) and invisible) and light	USPAT; DERWENT	2004/09/17 20:07
11	1	((authenticat\$4 and (object with (print\$4 adj region))) and invisible) and light) and compar\$4	USPAT; DERWENT	2004/09/17 20:08
12	1	((authenticat\$4 and (object with (print\$4 adj region))) and invisible) and light) and compar\$4) and image	USPAT; DERWENT	2004/09/17 20:11
13	917990	382/100, 112, 139, 140.cccls.	USPAT; DERWENT	2004/09/17 20:16
14	1377	(382/100, 112, 139, 140.cccls.) and (print\$4 near region)	USPAT; DERWENT	2004/09/17 20:13
15	0	((382/100, 112, 139, 140.cccls.) and (print\$4 near region)) and (invisible adj indicia)	USPAT; DERWENT	2004/09/17 20:16
16	0	((382/100, 112, 139, 140.cccls.) and (print\$4 near region)) and (non-visible adj indicia)	USPAT; DERWENT	2004/09/17 20:14
17	2	(382/100, 112, 139, 140.cccls.) and (non-visible adj indicia)	USPAT; DERWENT	2004/09/17 20:14
18	28	(382/100, 112, 139, 140.cccls.) and (invisible adj indicia)	USPAT; DERWENT	2004/09/17 20:14
19	20	((382/100, 112, 139, 140.cccls.) and (invisible adj indicia)) and print\$4	USPAT; DERWENT	2004/09/17 20:17
20	9	((382/100, 112, 139, 140.cccls.) and (invisible adj indicia)) and print\$4) and wavelength	USPAT; DERWENT	2004/09/17 20:17
21	4	((382/100, 112, 139, 140.cccls.) and (invisible adj indicia)) and print\$4) and wavelength) and layer	USPAT; DERWENT	2004/09/17 20:17
22	4	((382/100, 112, 139, 140.cccls.) and (invisible adj indicia)) and print\$4) and wavelength) and layer) and compar\$4	USPAT; DERWENT	2004/09/17 20:17
23	103494	382/(100, 112, 139, "140").cccls.	USPAT; DERWENT	2004/09/17 20:16
24	11	(382/(100, 112, 139, "140").cccls.) and (invisible adj indicia)	USPAT; DERWENT	2004/09/17 20:18
25	10	((382/(100, 112, 139, "140").cccls.) and (invisible adj indicia)) and print\$4	USPAT; DERWENT	2004/09/17 20:18
26	8	((382/(100, 112, 139, "140").cccls.) and (invisible adj indicia)) and print\$4) and wavelength	USPAT; DERWENT	2004/09/17 20:18
27	2	((382/(100, 112, 139, "140").cccls.) and (invisible adj indicia)) and print\$4) and wavelength) and layer	USPAT; DERWENT	2004/09/17 20:18
28	1	((382/(100, 112, 139, "140").cccls.) and (invisible adj indicia)) and print\$4) and wavelength) and layer) and compar\$4	USPAT; DERWENT	2004/09/17 20:19

29	1852	(382/(100, 112, 139, "140").ccls.) and authenticat\$4	USPAT; DERWENT	2004/09/17 20:18
30	5	((382/(100, 112, 139, "140").ccls.) and authenticat\$4) and (invisible adj indicia)	USPAT; DERWENT	2004/09/17 20:18
31	5	((382/(100, 112, 139, "140").ccls.) and authenticat\$4) and (invisible adj indicia) and print\$4	USPAT; DERWENT	2004/09/17 20:18
32	5	((382/(100, 112, 139, "140").ccls.) and authenticat\$4) and (invisible adj indicia) and print\$4 and wavelength	USPAT; DERWENT	2004/09/17 20:18
33	0	((382/(100, 112, 139, "140").ccls.) and authenticat\$4) and (invisible adj indicia) and print\$4 and wavelength) and layer	USPAT; DERWENT	2004/09/17 20:19
34	5	((382/(100, 112, 139, "140").ccls.) and authenticat\$4) and (invisible adj indicia) and print\$4 and wavelength) and compar\$4	USPAT; DERWENT	2004/09/17 20:22
35	451	authenticat\$4 and object	EPO; JPO	2004/09/17 20:22
37	0	((authenticat\$4 and object) and wavelength) and invisible	EPO; JPO	2004/09/17 20:23
38	0	((authenticat\$4 and object) and wavelength) and non-visible	EPO; JPO	2004/09/17 20:23
39	0	((authenticat\$4 and object) and wavelength) and imperceptible	EPO; JPO	2004/09/17 20:23
40	0	((authenticat\$4 and object) and wavelength) and non-visible	EPO; JPO	2004/09/17 20:23
41	0	((authenticat\$4 and object) and wavelength) and invisible	EPO; JPO	2004/09/17 20:24
42	0	((authenticat\$4 and object) and wavelength) and imperceptible	EPO; JPO	2004/09/17 20:24
36	7	(authenticat\$4 and object) and wavelength	EPO; JPO	2004/09/17 20:24
43	2	(authenticat\$4 and object) and invisible	EPO; JPO	2004/09/17 20:24
44	1	((authenticat\$4 and object) and invisible) and light	EPO; JPO	2004/09/17 20:24

	U	1	Document ID	Issue Date	Page s	Title	Current OR
1	<input type="checkbox"/>	<input type="checkbox"/>	JP 10320517 A	199812045		IDENTITY AUTHENTICATION METHOD AND DEVICE THEREFOR USING MARK INVISIBLE TO NAKED EYE	



	<b>Image Doc. Displayed</b>	<b>PT</b>
1	JP 10320517 A	<input type="checkbox"/>

	U	1	Document ID	Issue Date	Page s	Title	Current OR
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6536665 B1	20030325	10	Method and apparatus for transaction card security utilizing embedded image data	235/380



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	<input type="checkbox"/> U	<input type="checkbox"/> 1	Document ID	Issue Date	Page s	Title	Current OR
1	<input type="checkbox"/>	<input type="checkbox"/>	US 6603871 B2	20030805	17	First-order authentication system	382/135
2	<input type="checkbox"/>	<input type="checkbox"/>	US 6470093 B2	20021022	12	First-order authentication system	382/135
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6373965 B1	20020416	23	Apparatus and methods for authentication using partially fluorescent graphic images and OCR characters	382/112
4	<input type="checkbox"/>	<input type="checkbox"/>	US 5867586 A	19990202	13	Apparatus and methods for fluorescent imaging and optical character reading	382/112
5	<input type="checkbox"/>	<input type="checkbox"/>	US 5719948 A	19980217	12	Apparatus and methods for fluorescent imaging and optical character reading	382/112



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3	US 6373965	<input type="checkbox"/>
4	US 5867586	<input type="checkbox"/>
5	US 5719948	<input type="checkbox"/>

L Number	Hits	Search Text	DB	Time stamp
1	32315	authenticat\$6	USPAT; DERWENT	2004/09/18 13:00
2	207	authenticat\$6 and ((attach\$4 or add\$4) near identification)	USPAT; DERWENT	2004/09/18 13:00
3	17	(authenticat\$6 and ((attach\$4 or add\$4) near identification)) and invisible	USPAT; DERWENT	2004/09/18 13:00
4	12	((authenticat\$6 and ((attach\$4 or add\$4) near identification)) and invisible) and encod\$4	USPAT; DERWENT	2004/09/18 12:57
5	11	((((authenticat\$6 and ((attach\$4 or add\$4) near identification)) and invisible) and encod\$4) and image	USPAT; DERWENT	2004/09/18 12:57
6	17	((((authenticat\$6 and ((attach\$4 or add\$4) near identification)) and invisible) and encod\$4) and image) and compar\$4	USPAT; DERWENT	2004/09/18 12:57
7	10	((((authenticat\$6 and ((attach\$4 or add\$4) near identification)) and invisible) and encod\$4) and image) and compar\$4	USPAT; DERWENT	2004/09/18 12:57
8	3	(((((authenticat\$6 and ((attach\$4 or add\$4) near identification)) and invisible) and encod\$4) and image) and compar\$4) and indicia	USPAT; DERWENT	2004/09/18 12:58
9	3	(((((authenticat\$6 and ((attach\$4 or add\$4) near identification)) and invisible) and encod\$4) and image) and compar\$4) and indicia) and object	USPAT; DERWENT	2004/09/18 12:58
10	3	(((((authenticat\$6 and ((attach\$4 or add\$4) near identification)) and invisible) and encod\$4) and image) and compar\$4) and indicia) and object) and light	USPAT; DERWENT	2004/09/18 12:58
11	10757	authenticat\$6.ti.	USPAT; DERWENT	2004/09/18 13:00
12	22	authenticat\$6.ti. and ((attach\$4 or add\$4) near identification)	USPAT; DERWENT	2004/09/18 13:04
13	1	(authenticat\$6.ti. and ((attach\$4 or add\$4) near identification)) and invisible	USPAT; DERWENT	2004/09/18 13:01
14	1	((authenticat\$6.ti. and ((attach\$4 or add\$4) near identification)) and invisible) and compar\$4	USPAT; DERWENT	2004/09/18 13:01
15	1	(authenticat\$6.ti. and ((attach\$4 or add\$4) near identification)) and (invisible or imperceiv\$4)	USPAT; DERWENT	2004/09/18 13:02
16	1	(authenticat\$6.ti. and ((attach\$4 or add\$4) near identification)) and (invisible or imperceiv\$4 or non-visible)	USPAT; DERWENT	2004/09/18 13:32
17	23	authenticat\$6.ti. and ((attach\$4 or add\$4 or append\$4) near identification)	USPAT; DERWENT	2004/09/18 13:03
18	8	(authenticat\$6.ti. and ((attach\$4 or add\$4 or append\$4) near identification)) and article	USPAT; DERWENT	2004/09/18 13:03
19	0	((authenticat\$6.ti. and ((attach\$4 or add\$4 or append\$4) near identification)) and article) and (invisible or imperceiv\$4 or non-visible)	USPAT; DERWENT	2004/09/18 13:04
20	149	(invisible or imperceiv\$4 or non-visible) near indicia	USPAT; DERWENT	2004/09/18 13:04
21	0	( (invisible or imperceiv\$4 or non-visible) near indicia) and ((attach\$4 or add\$4) near identification)	USPAT; DERWENT	2004/09/18 13:05
22	1	( (invisible or imperceiv\$4 or non-visible) near indicia) and (additional near identification)	USPAT; DERWENT	2004/09/18 13:05
23	1	(( (invisible or imperceiv\$4 or non-visible) near indicia) and (additional near identification)) and article	USPAT; DERWENT	2004/09/18 13:05
24	1	6373965.pn. and encod\$4	USPAT; DERWENT	2004/09/18 14:15

25	1	6373965.pn. and lens	USPAT; DERWENT	2004/09/18 14:16
26	0	6373965.pn. and network	USPAT; DERWENT	2004/09/18 14:16
27	1	6373965.pn. and communication	USPAT; DERWENT	2004/09/18 14:17
28	0	6373965.pn. and database	USPAT; DERWENT	2004/09/18 14:17
29	2447063	6373965.pn. and data base	USPAT; DERWENT	2004/09/18 14:17
30	0	6373965.pn. and (data adj base)	USPAT; DERWENT	2004/09/18 14:18
31	0	6373965.pn. and base	USPAT; DERWENT	2004/09/18 14:18
32	0	6373965.pn. and file	USPAT; DERWENT	2004/09/18 14:24
33	1	6373965.pn. and distance	USPAT; DERWENT	2004/09/18 14:29
34	1	6373965.pn. and transmit\$4	USPAT; DERWENT	2004/09/18 14:55
35	1	6373965.pn. and computer	USPAT; DERWENT	2004/09/18 15:00
36	1	6373965.pn. and location	USPAT; DERWENT	2004/09/18 15:17
37	1	10320517.pn.	EPO; JPO	2004/09/18 15:18